Amendments to the Claims

- 1. (Currently amended) A method of transforming rice plants with one or more heterologous nucleic acid coding sequences capable of producing heterologous proteins in the rice, under selected induction conditions, comprising cotransforming rice callus cells with a set of two or more expression cassettes, said set comprising:
- (a) a chimeric selectable marker expression cassette having, operatively linked in sequence in a 5' to 3' direction, (i) a transcriptional regulatory region which expresses in transformed callus cells at a significantly higher level than in seed tissue, and hybridizes under high stringency conditions with the rice β -glucanase gene (Gns9) promoter identified by SEQ ID NO:1; (ii) a phosphinothricin acetyltransferase- coding sequence and (iii) a 3' untranslated terminator region; and
- (b) at least one heterologous gene expression cassette, having operatively linked in sequence in a 5' to 3' direction, (i) a transcriptional regulatory region that is expressed, induced or inducible in plant seeds, (ii) a first DNA sequence encoding a selected heterologous protein, and (iii) a 3' untranslated terminator region, wherein the transcriptional regulatory region in said heterologous-gene expression cassette is induced during seed maturation or seed germination;
- (i) culturing the callus cells in the presence of a selection agent effective to block growth of callus cells in the absence of expression of the phosphinothricin acetyltransferase-encoding nucleic acid sequence;
- (ii) selecting those callus cells that express the phosphinothricin acetyltransferase enzyme, as evidenced by their growth in the presence of the selection agent; and
- (iii) regenerating the selected callus cells into transgenic plants under non-selection conditions.
 - 2. (Original) A rice plant transformed by the method of claim 1.

- 3. (Original) A plant transformation expression cassette for transforming rice plant cells with a chimeric selectable marker gene, said cassette comprising, in a 5' to 3' direction:
- (i) a transcriptional regulatory region comprising a sequence which hybridizes under high stringency conditions with the rice β-glucanase gene promoter identified by SEQ ID NO:1, and which expresses in callus cells at a significantly higher level than in a selected target tissue,
- (ii) a phosphinothricin acetyltransferase encoding selectable marker coding sequence, and
 - (iii) a 3' untranslated terminator region.
- 4. (Original) A plant transformation expression cassette according to claim 3, wherein the transcriptional regulatory region in the selectable marker gene is the Gns9 promoter identified by SEQ ID NO:1 or an operative portion thereof, said portion sufficient to promote expression in transformed callus cells at a significantly higher level than in a selected target tissue.
- 5. (Original) A rice plant produced by regenerating a plant cell transformed with the expression cassette of claim 4.
 - 6. (Currently amended) A Ttransgenic rice seed comprising:
- a chimeric selectable marker gene including a phosphinothricin acetyltransferase selectable marker coding sequence under the control of a transcriptional regulatory region that is induced in callus [plant] tissue at a significantly higher level than in seed tissue and hybridizes under high stringency conditions with the rice β-glucanase gene (Gns9) promoter identified by SEQ ID NO:1, and

a heterologous protein coding sequence under the control of a transcriptional regulatory region that is induced or inducible during seed maturation or germination.

- 7. (Original) The transgenic rice seed of claim 6, wherein said chimeric selectable marker gene has the sequence identified by SEQ ID NO:4.
 - 8-17. (Canceled)
- 18. (Previously presented) A plant transformation expression cassette according to claim 4, wherein said chimeric selectable marker gene has the sequence identified by SEQ ID NO:4.
 - 19. (Canceled)